·	Application No.	Applicant(s)		
Notice of Allowability				
	10/037,844 Examiner	CHEN ET AL.  Art Unit	· · · · · · · · · · · · · · · · · · ·	
	Naum B Levin	2825		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. This communication is responsive to Amendment 11/26/2003.				
2. ☑ The allowed claim(s) is/are <u>5-17 and 22-44</u> .				
3.   The drawings filed on 19 October 2001 are accepted by the	e Examiner.			
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> </ul>				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No.				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.				
(a) The translation of the foreign language provisional application has been received.				
6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE				
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
8. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No				
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.				
(c) 🔲 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).				
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachm nt(s)	_			
1⊠ Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	· · · · · · · · · · · · · · · · · · ·		
2 Notice of Draftperson's Patent Drawing Review (PTO-948)		6☐ Interview Summary (PTO-413), Paper No		
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No	), 7☐ Examiner's Amendme	ent/Comment		
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemen 9⊡ Other	8⊠ Examiner's Statement of Reasons for Allowance 9□ Other .		
	. ,			

Application/Control Number: 10/037,844

Art Unit: 2825

This office action is in response to application 10/037,844 and amendment filed

**DETAILED ACTION** 

on 11/26/2003. Claims 5-17 and 22-44 remain pending in the application.

Allowable Subject Matter

1. Claims 5-17 and 22-44 are allowed over prior art of record.

2. The following is an examiner's statement of reasons for allowance:

The examiner finds applicant's arguments persuasive.

The prior art of record fails to teach or suggest or render obvious:

A method for modeling a circuit design comprising: synthesizing a circuit design

to create a first gate-level representation of the circuit design; analyzing a second gate -

level representation of the circuit design to learn architecture information; and

resynthesizing the first gate-level representation of the circuit design to incorporate the

learned architecture information from the second gate-level representation of the circuit

design, wherein the analyzing comprises a resource sharing learning, the resource

sharing learning comprising: creating one or more resource pairs from sharable

resources in the first gate-level representation of the circuit design for each of the one or

more resource pairs, synthesizing a subcircuit that shares the resource pair; for each of

the synthesized subcircuits calculating a similarity with a corresponding subcircuit in the

second gate-level representation of the circuit design; and identifying the synthesized

subcircuits having a high similarity with the corresponding subcircuit in the second gate-

level representation of the circuit design.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance".

Conclusion

4. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Naum B Levin whose telephone number is 703-305-

0144. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew S Smith can be reached on 703-308-1323. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

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